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LEVEL 1 - 1 OF 4 PATENTS

5,344,815

<=2> GET 1st DRAWING SHEET OF 4

Sep. 6, 1994

Fabrication of high T C superconducting helical resonator coils

INVENTOR: Su, Sophia R., Weston, Massachusetts
O'Connor, Margaret, Worcester, Massachusetts
Butler, Scott, N. Oxford, Massachusetts

... [*13] oxygen for at least 2 hr.

[*14] 14. A method in accordance with claim 11 wherein said mixture further comprises at least about 3 w/o grain aligned clusters of a like rare earth barium copper oxide superconductor.

[*15] 15. A method in accordance with claim 11 wherein said rare earth

barium copper oxide superconductor is an yttrium barium copper oxide superconductor.

[*16] 16. A ...

LEVEL 1 - 2 OF 4 PATENTS

5,236,091

<=2> GET 1st DRAWING SHEET OF 5

Aug. 17, 1993

Eddy current separator and method of making a rotor

INVENTOR: Kauppila, Raymond, Marquette, Michigan
Nowak, Gregory, Girard, Pennsylvania

... as follows:

[*1] 1. A rotor for an eddy current separator comprising a rotor body having generally cylindrical, outer peripheral surfaces designed to be rotated at a design speed;

plate-like rare earth permanent magnets;

adhesive means attaching said plate-like rare earth permanent magnets to said outer peripheral surfaces of said rotor body at a bond line;

said plate-like rare earth permanent magnets being disposed in longitudinal rows extending from one end of said rotor to the other;

said plate-like rare earth permanent magnets in a particular row having a polarity on their outer end opposite the polarity of an outer end of said plate-like permanent magnets in adjacent rows;

a fiber means ...

... [*3] equal to that of carbon.

[*4] 4. A rotor for an eddy current separator comprising a rotor body having generally cylindrical, outer peripheral surfaces designed to be rotated at a design speed;

plate-like rare earth permanent magnets;

adhesive means attaching said plate-like rare earth permanent magnets to said outer peripheral surfaces of said rotor body at a bond line;

said plate-like rare earth permanent magnets being disposed in longitudinal rows extending from one end of said rotor to the other;

said plate-like rare earth permanent magnets in a particular row having a polarity on their outer end opposite the polarity of an outer end of said plate-like permanent magnets in adjacent rows;

fiber means wrapped ...

... [*7] body having a polygonal outer periphery;

said polygonal outer periphery having a plurality of circumferentially disposed adjacent flat surfaces of equal width extending longitudinally of

said rotor from end to end thereof;

plate-like rare earth permanent magnets having a width substantially equal to the width of sides of said polygonal outer periphery and attached to said flat

surfaces by adhesive;

said plate-like rare earth permanent magnets extending substantially continuously from end to end of said rotor;

said shell being made of an electrically non-conductive material and adapted to receive said rotor;

a heat shield being ...

LEVEL 1 - 3 OF 4 PATENTS

5,162,298

<=2> GET 1st DRAWING SHEET OF 5

Nov. 10, 1992

Grain boundary junction devices using high T c superconductors

INVENTOR: Chaudhari, Praveen, Briarcliff Manor, New York
Chi, Cheng-Chung J., Yorktown Heights, New York
Dimos, Duane B., Upper Montclair, New Jersey
Mannhart, Jochen D., Metzingen, New York, Federal Republic of Germany
Tsuei, Chang C., Chappaqua, New York

... [*4] copper oxide material having a superconducting onset temperature greater than 77 K.

[*5] 5. The device of claim 4, where said superconducting material includes an atom selected from the group consisting of rare earth atoms and rare earth-like atoms.

[*6] 6. The device of claim 4, where said superconducting material includes an alkaline earth atoms.

[*7] 7. The device of claim 4, where said superconducting material includes bismuth.

[*8] 8. The device of claim 1, where ...

LEVEL 1 - 4 OF 4 PATENTS

4,681,625

<=2> GET 1st DRAWING SHEET OF 11

Jul. 21, 1987

Methods for simultaneously desulfurizing and degassing steels

INVENTOR: Wilson, William G., 820 Harden Dr., Pittsburgh, Pennsylvania 15229

... [*21] metals to be added in the tube to enhance desulfurization are those which are known to have the ability to reduce the oxygen content of the steel, but also have the ability to form sulfides which would float out of the steel into the slag which include magnesium, calcium, barium, rare earths and the like.

[*22] 22. The method as claimed in claims 1 or 5 wherein the ferro-alloys and elemental metals to be added in the tube are those necessary to obtain the desired chemical analysis of the finished steel such as ferro- ...

* 5 PAGES 99 LINES JOB 53156 100G6J *
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